

Marc Baarmand

List of Publications by Year in descending order

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Version: 2024-02-01

371
papers

19,218
citations

13099

68
h-index

21540

114
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381
all docs

381
docs citations

381
times ranked

9665
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
3	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
4	Study of high-p _T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{--}4.76\text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	369
5	Combined measurements of Higgs boson couplings in proton–proton collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 421.	3.9	355
6	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
7	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
8	Search for dark matter, extra dimensions, and unparticles in monojet events in proton–proton collisions at $\sqrt{s}=8\text{ TeV}$. European Physical Journal C, 2015, 75, 235.	3.9	320
9	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
10	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	4.7	230
11	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200
12	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
13	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8\text{ TeV}$. European Physical Journal C, 2015, 75, 542.	3.9	191
14	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	181
15	Search for heavy neutrinos and W bosons with right-handed couplings in proton–proton collisions at $\sqrt{s}=8\text{ TeV}$. European Physical Journal C, 2014, 74, 3149.	3.9	179
16			

#	ARTICLE	IF	CITATIONS
19	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	168
20	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.	4.7	158
21	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	154
22	Search for supersymmetry in hadronic final states with missing transverse energy using the variables \hat{t} and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568.	3.9	147
23	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
24	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
25	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	129
26	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	125
27	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
28	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
29	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
30	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
31	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
32	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	117
33	Measurement of the Top Quark Mass Using Dilepton Events. Physical Review Letters, 1998, 80, 2063-2068.	7.8	110
34	The production cross section and angular correlations in collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 264-272.	4.1	110
35	Direct measurement of the top quark mass by the DØ Collaboration. Physical Review D, 1998, 58, .	4.7	107
36	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106

#	ARTICLE	IF	CITATIONS
37	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
38	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
39	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	100
40	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
41	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
42	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
43	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
44	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
45	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
46	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	12.6	85
47	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
48	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
49	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = \sqrt{s_{\mathrm{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
50	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
51	Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	83
52	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow p + W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
53	Measurement of prompt and nonprompt charmonium suppression in $PbPb$ collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
54	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82

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55	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
56	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
57	Measurement of the top quark mass in the dilepton channel. Physical Review D, 1999, 60, .	4.7	80
58	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 75.	3.9	78
59	Inclusive Jet Production in pp Collisions. Physical Review Letters, 2001, 86, 1707-1712.	7.8	77
60	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
61	Isolated Photon Cross Section in pp Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 2000, 84, 2786-2791.	7.8	75
62	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
63	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2014, 74, 1.	3.9	75
64	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \Upsilon$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
65	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	3.9	73
66	Measurement of the Top Quark Pair Production Cross Section in pp Collisions. Physical Review Letters, 1997, 79, 1203-1208.	7.8	70
67	Search for Large Extra Dimensions in Dielectron and Diphoton Production. Physical Review Letters, 2001, 86, 1156-1161.	7.8	70
68	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
69	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 3.	3.9	70
70	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
71	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	69
72	Cross Section for b-Jet Production in p-p Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 2000, 85, 5068-5073.	7.8	68

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73	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	68
74	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	3.9	68
75	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
76	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	3.9	68
77	Measurement of the $\sigma(\text{t}\bar{\text{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	3.9	68
78	Extraction of the width of the W boson from measurements of $\sigma(\text{pp} \rightarrow \text{W}^+ \text{X})/\sigma(\text{pp} \rightarrow \text{W}^+ \text{e}^+ \nu_e)$ and $\sigma(\text{pp} \rightarrow \text{W}^- \text{X})/\sigma(\text{pp} \rightarrow \text{W}^- \text{e}^- \nu_e)$ and their ratio. Physical Review D, 2000, 61, .	4.7	67
79	High-pT jets in $\text{p}\bar{\text{p}}$ collisions at $\sqrt{s} = 630$ and 1800 GeV. Physical Review D, 2001, 64, .	4.7	67
80	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
81	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7, \text{TeV}$. European Physical Journal C, 2014, 74, 3129.	3.9	65
82	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2283.	3.9	64
83	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$. European Physical Journal C, 2016, 76, 439.	3.9	64
84	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
85	Inclusive Jet Cross Section in $\text{p}\bar{\text{p}}$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 1999, 82, 2451-2456.	7.8	62
86	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\gamma^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
87	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
88	Dijet Mass Spectrum and a Search for Quark Compositeness in $\text{p}\bar{\text{p}}$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 1999, 82, 2457-2462.	7.8	61
89	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
90	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60

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91	Search for single top quark production at $D\bar{A}^*$ using neural networks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 282-294.	4.1	59
92	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7; \text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
93	Search for anomalous t production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
94	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
95	Studies of jet mass in dijet and $W/Z + \text{jet}$ events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
96	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2015, 75, 237.	3.9	58
97	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV . European Physical Journal C, 2018, 78, 701.	3.9	58
98	Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. Physical Review Letters, 1999, 82, 4769-4774.	7.8	57

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109	Measurement of the W boson mass. Physical Review D, 1998, 58, .	4.7	54
110	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
111	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
112	Determination of the absolute jet energy scale in the $D\bar{A}$ calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 352-394.	1.6	53
113	Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53
114	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
115	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
116	Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
117	Search for exclusive or semi-exclusive $\hat{t}\hat{t}^*$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
118	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
119	Measurement of the W Boson Mass. Physical Review Letters, 1996, 77, 3309-3314.	7.8	50
120	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	3.9	50
121	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
122	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
123	Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
124	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
125	Limits on Anomalous $WW\hat{t}^3$ Couplings from pp $\hat{t}\hat{t}^*W\hat{t}^3 + X$ Events at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1997, 78, 3634-3639.	7.8	48
126	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	48

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127	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton–proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 364.	3.9	48
128	Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in $p\bar{p}$ Collisions. Physical Review Letters, 1997, 79, 4321-4326.	7.8	47
129	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	47
130	Search for First Generation Scalar Leptoquark Pairs in pp Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1998, 80, 2051-2056.	7.8	46
131	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
132	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	46
133	Search for third-generation scalar leptoquarks decaying to a top quark and a μ^{\pm} , lepton at $\sqrt{s} = 13$, $\sqrt{s} = 13$ Te. European Physical Journal C, 2018, 78, 707.	3.9	46
134	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45
135	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
136	Search for decays of stopped long-lived particles produced in proton–proton collisions at $\sqrt{s} = 8$, $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151.	3.9	44
137	Search for standard model production of four top quarks with same-sign and multilepton final states in proton–proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
138	Search for new physics in $\sqrt{s} = 13$ TeV data at $\sqrt{s} = 13$ TeV using SLEUTH: A quasi-model-independent search strategy for new physics. Physical Review D, 2000, 62, .	4.7	43
139	Measurement of top quark–antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$, $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	3.9	43
140	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
141	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton–proton collisions at $\sqrt{s} = 8$, $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
142	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	42
143	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
144	Measurement of the $t\bar{t}\gamma$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s} = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41

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145	Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t})$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
146	Differential Production Cross Section of Z Bosons as a Function of Transverse Momentum at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 84, 2792-2797.	7.8	40
147	Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40
148	Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t})$ production cross section using events in the $e^+e^- \rightarrow \mu^+\mu^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
149	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
150	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
151	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
152	Measurement of Dijet Angular Distributions and Search for Quark Compositeness. Physical Review Letters, 1998, 80, 666-671.	7.8	39
153	Small-Angle Muon and Bottom-Quark Production in $pp \rightarrow t\bar{t}$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 84, 5478-5483.	7.8	39
154	Quasi-Model-Independent Search for New High- p_T Physics at D0. Physical Review Letters, 2001, 86, 3712-3717.	7.8	39
155	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
156	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
157	Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
158	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
159	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma^*, 2\gamma, \gamma\gamma$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
160	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
161	Measurement of differential cross sections for $Z \rightarrow e^+e^-$ Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
162	Azimuthal Decorrelation of Jets Widely Separated in Rapidity. Physical Review Letters, 1996, 77, 595-600.	7.8	38

#	ARTICLE	IF	CITATIONS
163	Spin Correlation in $t\bar{t}$ Production from $pp \rightarrow t\bar{t}$ Collisions at $\sqrt{s}=1.8\text{TeV}$. Physical Review Letters, 2000, 85, 256-261.	7.8	38
164	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7\text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
165	Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	38
166	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2017, 77, 845.	3.9	38
167	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2017, 77, 636.	3.9	38
168	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $t\bar{t}$, leptons at $\sqrt{s}=13\text{TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
169	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=7\text{TeV}$ using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	3.9	37
170	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7\text{TeV}$ and 8TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8\text{TeV}$. European Physical Journal C, 2017, 77, 236.	3.9	37
171	Study of the ZZ and $Z\gamma$ Couplings in $Z(\gamma)\gamma$ Production. Physical Review Letters, 1997, 78, 3640-3645.	7.8	36
172	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7\text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
173	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7\text{TeV}$. European Physical Journal C, 2014, 74, 2758.	3.9	35
174	Measurement of exclusive $\gamma\gamma$ photoproduction from protons in pp collisions at $\sqrt{s}=5.02\text{TeV}$. European Physical Journal C, 2019, 79, 277.	3.9	35
175	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 488.	3.9	35
176	Quasi-model-independent search for new physics at large transverse momentum. Physical Review D, 2001, 64, .	4.7	34
177	The inclusive jet cross section in pp collisions at $\sqrt{s}=1.8\text{TeV}$ using the k_T algorithm. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 211-218.	4.1	34
178	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
179	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
180	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable L_T . Journal of High Energy Physics, 2013, 2013, 1.	4.7	34

#	ARTICLE	IF	CITATIONS
181	Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
182	Measurement of $\overline{t}t\hat{A}^-$ production with additional jet activity, including $b\bar{b}$ quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{TeV}$. European Physical Journal C, 2016, 76, 379.	3.9	34
183	Measurements of the $\overline{t}t\hat{A}^-$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
184	Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2018, 78, 891.	3.9	34
185	$t\bar{t}\hat{A}^-$ production cross section in pp \hat{A}^- collisions at $s=1.8\text{TeV}$. Physical Review D, 2003, 67, .	4.7	33
186	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7\text{TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	33
187	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8\text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
188	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02, \text{TeV}$. European Physical Journal C, 2019, 79, 702.	3.9	33
189	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2021, 81, 13.	3.9	33
190	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2021, 81, 3.	3.9	33
191	Measurement of normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13, \text{TeV}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
192	Measurement of the Shape of the Transverse Momentum Distribution of W Bosons Produced in pp \hat{A}^- Collisions at $s=1.8\text{TeV}$. Physical Review Letters, 1998, 80, 5498-5503.	7.8	32
193	A Measurement of the W Boson Mass at the Fermilab pp \hat{A}^- Collider. Physical Review Letters, 1998, 80, 3008-3013.	7.8	32
194	Measurement of the W Boson Mass Using Electrons at Large Rapidities. Physical Review Letters, 2000, 84, 222-227.	7.8	32
195	Measurement of the W boson mass using large rapidity electrons. Physical Review D, 2000, 62, .	4.7	32
196	Probing Balitsky-Fadin-Kuraev-Lipatov Dynamics in the Dijet Cross Section at Large Rapidity Intervals in pp \hat{A}^- Collisions at $s=1800$ and 630 GeV. Physical Review Letters, 2000, 84, 5722-5727.	7.8	32
197	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
198	Search for supersymmetry in pp collisions at $\sqrt{s} = 7\text{ TeV}$ in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32

#	ARTICLE	IF	CITATIONS
199	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
200	Jet and underlying event properties as a function of charged-particle multiplicity in proton–proton collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2674.	3.9	32
201	Measurements of the $\mathcal{L}(\text{Z})\text{Z}$ production cross sections in the $2\ell 2\ell$ channel in proton–proton collisions at $\sqrt{s} = 7 \text{ TeV}$ and $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 511.	3.9	32
202	Searches for pair production of third-generation squarks in $\sqrt{s} = 13 \text{ TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
203	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
204	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	31
205	Measurement of electroweak production of two jets in association with a Z boson in proton–proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 66.	3.9	31
206	Search for top squark pair production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
207	A multi-dimensional search for new heavy resonances decaying to boosted W^+W^- , W^+Z , or ZZ boson pairs in the dijet final state at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 237.	3.9	31
208	Search for Second-Generation Leptoquark Pairs in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 2000, 84, 2088-2093.	7.8	30
209	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV . Journal of High Energy Physics, 2011, 2011, 1.	4.7	30
210	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
211	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow 4\ell$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
212	Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
213	Search for massive WH resonances decaying into the $u\bar{b}$ final state at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 237.	3.9	30
214	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 751.	3.9	30
215	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
216	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2016, 76, 372.	3.9	29

#	ARTICLE	IF	CITATIONS
217	A search for new phenomena in pp collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the α_{T} variable. European Physical Journal C, 2017, 77, 294.	3.9	29
218	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
219	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 280.	3.9	29
220	Differential cross section for W boson production as a function of transverse momentum in collisions at TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 513, 292-300.	4.1	28
221	Search for $\text{t}\overline{\text{t}}\text{H}$ production in the $\text{H} \rightarrow \text{b}\overline{\text{b}}$ decay channel with leptonic $\text{t}\overline{\text{t}}$ decays in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
222	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
223	Study of Z production in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
224	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 291.	3.9	27
225	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
226	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
227	Search for additional neutral gauge bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 385, 471-478.	4.1	26
228	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	26
229	Search for resonant $\text{t}\overline{\text{t}}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
230	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	26
231	Search for the standard model Higgs boson in the $\text{H} \rightarrow \text{ZZ} \rightarrow 4\ell$ channel in pp collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
232	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
233	Search for $W \rightarrow \text{tb}$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	26
234	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV . Journal of High Energy Physics, 2011, 2011, 1.	4.7	25

#	ARTICLE	IF	CITATIONS
235	Forward–backward asymmetry of Drell–Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	3.9	25
236	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
237	Measurement of the $t\bar{t}$ production cross section in the $\ell\ell, +\text{jets}$ channel in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	24
238	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
239	Measurements of $\sigma(\text{pp} \rightarrow \text{p} \text{p} \rightarrow \text{Z} \text{Z})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
240	Determination of the mass of the W boson using the DØ detector at the Fermilab Tevatron. Physical Review D, 1998, 58, .	4.7	23
241	Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	23
242	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	3.9	23
243	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
244	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
245	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	3.9	23
246	Subject multiplicity of gluon and quark jets reconstructed with the k_T algorithm in pp collisions. Physical Review D, 2002, 65, .	4.7	22
247	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
248	Search for physics beyond the standard model in events with $\ell\ell$, leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493.	3.9	22
249	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
250	Search for direct pair production of supersymmetric partners to the τ lepton in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
251	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
252	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21

#	ARTICLE	IF	CITATIONS
253	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
254	Hard single diffraction in $p\bar{p}$ collisions at $s=630$ and 1800 GeV . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 52-60.	4.1	20
255	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
256	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7\text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
257	Search for supersymmetry in pp collisions at $\sqrt{s} = 7\text{ TeV}$ in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	3.9	20
258	Measurements of the $\overline{\text{t}}\text{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	20
259	Search for $\overline{\text{t}}\text{tH}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
260	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
261	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$. European Physical Journal C, 2019, 79, 94.	3.9	20
262	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
263	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s = 7\text{ TeV}$ and 8 TeV . Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
264	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell\bar{\ell}$, leptons in pp collisions at $s = 8\text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
265	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$. European Physical Journal C, 2021, 81, 723.	3.9	19
266	Color coherent radiation in multijet events from collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 419-427.	4.1	18
267	Direct measurement of the W boson decay width. Physical Review D, 2002, 66, .	4.7	18
268	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
269	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8\text{ TeV}$. European Physical Journal C, 2016, 76, 460.	3.9	18
270	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$. European Physical Journal C, 2019, 79, 20.	3.9	18

#	ARTICLE	IF	CITATIONS
289	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8\,\mathrm{TeV}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 536.	3.9	16
290	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8\,\mathrm{TeV}$ $s = 8$ TeV. European Physical Journal C, 2017, 77, 92.	3.9	16
291	Measurement of associated Z + charm production in proton–proton collisions at $\sqrt{s} = 8\,\mathrm{TeV}$ $s = 8\,\mathrm{TeV}$. European Physical Journal C, 2018, 78, 287.	3.9	16
292	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13\,\mathrm{TeV}$ $s = 13\,\mathrm{TeV}$. European Physical Journal C, 2019, 79, 886.	3.9	16
293	Search for Second Generation Leptoquark Pairs Decaying to $1/4 1/2 + jets$ in pp Collisions at $\sqrt{s}=1.8\,\mathrm{TeV}$. Physical Review Letters, 1999, 83, 2896-2901.	7.8	15
294	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7\,\mathrm{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
295	Measurement of the mass difference between top and antitop quarks. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
296	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7\,\mathrm{TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
297	Measurement of the $t\bar{t}$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13\,\mathrm{TeV}$ $\sqrt{s}=13\,\mathrm{TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
298	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7\,\mathrm{TeV}$ $s = 7\,\mathrm{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
299	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13\,\mathrm{TeV}$ $s = 13\,\mathrm{TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
300	Studies of $\mathrm{B}^*_{(s)}(5840)^0$ $B_{(s)}^* - (5840)^0$ and $\mathrm{B}_{(s)}^* - (5840)^0$ and $\mathrm{B}_{(s)}^* - (5840)^0$		

#	ARTICLE	IF	CITATIONS
307	Ratios of Multijet Cross Sections in $pp \rightarrow \text{Collisions at } \sqrt{s}=1.8\text{TeV}$. Physical Review Letters, 2001, 86, 1955-1960.	7.8	13
308	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	13
309	Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
310	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
311	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
312	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
313	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
314	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
315	Search for New Physics Using QUAERO: A General Interface to DO Event Data. Physical Review Letters, 2001, 87, 231801.	7.8	12
316	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
317	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{l}^3\tilde{l}^3$ or $\tilde{l}, +\tilde{l}, \tilde{\nu}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
318	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
319	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
320	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
321	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
322	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
323	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
324	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	11

#	ARTICLE	IF	CITATIONS
325	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \ell\ell \ell\ell$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
326	Measurement of the $Z\ell^3$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11
327	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
328	Study of the underlying event in top quark pair production in $p p$ collisions at 13 TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
329	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 43.	3.9	11
330	Spatial resolution attainable with cathode strip chambers at the trigger level. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 425, 92-105.	1.6	10
331	Limits on quark compositeness from high energy jets in $p\bar{p}$ collisions at 1.8 TeV. Physical Review D, 2000, 62, .	4.7	10
332	Measurement of the angular distribution of electrons from $W \rightarrow e\gamma$ decays observed in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 2001, 63, .	4.7	10
333	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10
334	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2018, 78, 242.	3.9	10
335	Measurement of the $\sigma(\text{Z}/\gamma^* \rightarrow \text{u}\bar{\text{u}})$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{Z}/\gamma^* \rightarrow \text{t}\bar{\text{t}})$. European Physical Journal C, 2018, 78, 708.	3.9	10
336	Search for a heavy resonance decaying into a Z boson and a vector boson in the $\text{u}\bar{\text{u}} \rightarrow \text{q}\bar{\text{q}}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
337	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
338	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
339	Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2ℓ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
340	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	7
341	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
342	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7

#	ARTICLE	IF	CITATIONS
343	Tests of cathode strip chamber prototypes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 402, 36-52.	1.6	6
344	Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum in p collisions at $\sqrt{s} = 1.8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 299-308.	4.1	6
345	Measurement of the cross section for production of $b\bar{b}$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
346	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
347	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
348	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
349	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
350	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
351	Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
352	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
353	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
354	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
355	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5
356	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
357	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
358	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4
359	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
360	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4

#	ARTICLE	IF	CITATIONS
361	Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
362	Measurements of the $(\mathrm{p})\mathrm{p} \rightarrow \mathrm{Z}(\mathrm{Z})$ production cross section and the $(\mathrm{Z}) \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. , 2018, 78, 1.		3
363	B-physics results from D $\bar{\Lambda}^*$. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 408, 87-93.	1.6	2
364	Search for minimal supergravity in single-electron events with jets and large missing transverse energy in pp collisions at $\sqrt{s} = 1.8$ TeV. Physical Review D, 2002, 66, .	4.7	2
365	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.	3.9	2
366	Measurements of angular distance and momentum ratio distributions in three-jet and $\mathrm{Z} + \text{two-jet}$ final states in $\mathrm{p}\bar{\mathrm{p}}$ collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
367	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
368	Measurement of the inclusive $\mathrm{t}\bar{\mathrm{t}}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
369	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
370	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
371	Observation of $\mathrm{B}^0 \rightarrow \psi(2\mathrm{S})\mathrm{K}^0_{\mathrm{S}} \ell^+ \ell^-$ and $\mathrm{B}^0_{\mathrm{S}} \rightarrow \psi(2\mathrm{S})\mathrm{K}^0_{\mathrm{S}} \ell^+ \ell^-$ decays. European Physical Journal C, 2022, 82, .	3.9	1